

the cover sheet with the communication This application is subject to PEP 1308.	Art Unit 2816 prespondence address Dication. If not included will be mailed in due course. THIS
the cover sheet with the co MAINS) CLOSED in this appropriate communication. This application is subject to PEP 1308.	2816 prrespondence address Dilication. If not included will be mailed in due course. THIS
the cover sheet with the community that the communication appropriate communication. This application is subject to PEP 1308.	orrespondence address olication. If not included will be mailed in due course. THIS
EMAINS) CLOSED in this appr r appropriate communication This application is subject to PEP 1308.	olication. If not included will be mailed in due course. THIS
U.S.C. § 119(a)-(d) or (f).	
eceived. eceived in Application No s have been received in this r	 national stage application from the
this application.	complying with the requirements
tent Drawing Review (PTO-S dment / Comment or in the O hould be written on the drawin	ffice action of
IOLOGICAL MATERIAL m IE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
6. ☐ Interview Summary Paper No./Mail Date 7. ☑ Examiner's Amendre	e
	communication to file a reply of this application. ote the attached EXAMINER' on(s) why the oath or declarate bmitted. atent Drawing Review (PTO-5 dment / Comment or in the Owned of the drawing reaccording to 37 CFR 1.121(c) and the DEPOSIT OF BIOLOGICAL MATERIAL IN THE DEPOSIT OF BIOLOGICAL BIOLOGICAL MATERIAL BIOLOGICAL BIOLO

Application/Control Number: 10/734,506 Page 2

Art Unit: 2816

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: in claim 20, lines 15-16 and lines 18-19, phrase --in response to a measured phase shift-- has been changed to "in response to said measured phase shift".

- 2. The following is an examiner's statement of reasons for allowance: the prior art of record fails to disclose an apparatus and method thereof comprising elements being configured as recited in claims. Specifically, none of the prior art teaches or fairly suggests, among other things, the following limitations:
 - At least one said delay unit of said plurality of serially-coupled delay units providing at least three stages of increasingly finer variable phase adjustment controllable by digital signals as required by claim 1.
 - Two parallel delay lines each comprising an input coupled to an input of said delay unit, each said delay line operative to output a signal having a phase; two parallel phase mixers each operative to receive said output signals from said two parallel delay lines, said two phase mixers each operative to output a signal having a phase between said phases of said delay line output signals; and a third phase mixer operative to receive said output signals from said two parallel phase mixers, said third

phase mixer operative to output a third signal having a third phase as required by claim 13.

- Generating a plurality of clock signals each phase-shifted differently relative to said reference clock signal, at least one of said generated phase-shifted clock signals generated via at least three stages of increasingly finer phase adjustment as required by claim 17.
- Adjusting coarsely phase shifts of said plurality of clock signals in response to a measured phase shift; adjusting finely said coarsely adjusted phase shifts of said plurality of clock signals in response to said measured phase shift; and adjusting more finely said finely adjusted phase shifts of said plurality of clock signals in response to said measured phase shift as required by claim 20. And
- Means for outputting a plurality of clock signals phase-shifted relative to said reference clock signal, said means for outputting comprising means for providing at least three stages of increasingly finer phase adjustment for at least one of said plurality of clock signals as required by claims 22 and 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/734,506 Page 4

Art Unit: 2816

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to An T. Luu whose telephone number is 571-272-1746. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

An T. Luu 8-19-05